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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/750,409	12/30/2003	Johanna Jacoba Maria Meulenberg	2183-4041.4US	4880
28516 7590 11/19/2007 MICHAEL P. MORRIS			EXAMINER	
BOEHRINGER INGELHEIM CORPORATION			HILL, MYRON G	
900 RIDGEBURY RD P O BOX 368 RIDGEFIELD, CT 06877-0368			ART UNIT	PAPER NUMBER
			1648	
			MAIL DATE	DELIVERY MODE
			11/19/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)			
Office Action Summary		10/750,409	MEULENBERG ET AL.			
		Examiner	Art Unit			
•		Myron G. Hill	1648			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address						
Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS,						
WHIC - Exten after: - If NO - Failur Any r	CRIENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DAISIONS of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. period for reply is specified above, the maximum statutory period we to reply within the set or extended period for reply will, by statute, eply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim viii apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	I. lely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status						
1)🖂	Responsive to communication(s) filed on 12 Ag	<u>oril 2007</u> .	•			
2a)⊠	This action is FINAL . 2b) This action is non-final.					
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Dispositi	on of Claims					
4)⊠ Claim(s) <u>21-26</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
•	6)⊠ Claim(s) <u>21-26</u> is/are rejected.					
•	Claim(s) is/are objected to.	r alastian requirement				
8)[_	Claim(s) are subject to restriction and/o	r election requirement.				
Applicati	on Papers					
9)□	The specification is objected to by the Examine	г.				
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
11)	The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action of form PTO-132.			
Priority (ınder 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
			•			
Attachmen	nt(s)					
	ce of References Cited (PTO-892)	4) Interview Summary (PTO-413) Paper No(s)/Mail Date				
3) Infor	ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08) er No(s)/Mail Date	5) Notice of Informal F				

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DETAILED ACTION

This action is in response to the papers filed 12/30/03.

This action is on claims 21-26.

Rejections Withdrawn

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 21-26 were rejected under 35 U.S.C. 102(a) as being anticipated by Calvert *et al.* (US 6500662).

Applicant has amended the claims and the rejection is withdrawn.

Claims 21-26 are rejected under 35 U.S.C. 102(b) as being anticipated by Calvert et al. (EP 1018557 A2 pub 12-2000).

Applicant has amended the claims and the rejection is withdrawn.

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Claims 21-26 are rejected under 35 U.S.C. 102(e) as being anticipated by

Calvert et al. (US 6500662).

Applicant has amended the claims and the rejection is withdrawn.

New Rejections Necessitated By Amendment

Claim Objections

Claim 21 is objected to because of the following informalities: "SEQ ID# 18 its 5"

end" appears to be a typo as compared to the other claims. "SEQ ID# 18 at its 5' end" is

recited in the other claims. Appropriate correction is required.

Applicant is advised that should claim 21 be found allowable, claim 23 will be

objected to under 37 CFR 1.75 as being a substantial duplicate thereof. When two

claims in an application are duplicates or else are so close in content that they both

cover the same thing, despite a slight difference in wording, it is proper after allowing

one claim to object to the other as being a substantial duplicate of the allowed claim.

See MPEP § 706.03(k).

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

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The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 21-26 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

The claims are recite a PRRSV nucleic acid sequence comprising SEQ ID# 18 at its 5' end.

The claims are drawn to any PRRSV with this 5' end and the only structure required is the 10 nucleotides of SEQ ID# 18.

The specification only discloses one virus passaged (paragraph 33) and isolation of viral RNA with in vitro experiments (pages 12-16).

Therefore only the sequenced virus, but not the full breadth of the claims meets the written description provision of 35 USC 112, first paragraph.

Claim Rejections - 35 USC § 102

Claim 25 is rejected under 35 U.S.C. 102(b) as anticipated by Wensvoort *et al.* (WO 92/21375).

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Wensvoort *et al.* (WO 92/21375) teach an infectious PRRSV virus (page 2, lines 14-35). This is the same virus as used by Applicant.

Thus, Wensvoort et al. anticipate the claimed invention.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 21-26 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wensvoort *et al.* (WO 92/21375) and Moormann *et al.* (Journal of Virology 1996, Vol 70, pages 763-770):

The claims are drawn to a nucleic acid of a PRRSV comprising SEQ ID#18, including DNA, plasmids, cells, and infectious clones.

Wensvoort et al. is discussed above and teaches an infectious virus.

Wensvoort et al. does not teach making infectious clones.

Moormann et al. teach making infectious and recombinant clones of plus strand RNA viruses and these can be used to make virus (abstract, Figures 1 and 2, and discussion).

One of ordinary skill in the art at the time of invention would have been motivated to make a infectious DNA clone/recombinant virus of the virus taught by Wensvoort et al. because it would allow for genetic manipulation of the virus as well as provided a

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defined seed stock of a vaccine virus. One of ordinary skill in the art at the time of invention would have the expectation of success because Wensvoort *et al.* teach a virus and Moormann *et al.* teach that infectious clones can be made of plus stranded RNA viruses.

Thus, the invention is prima facie obvious over Wensvoort et al. and Moormann et al.

Conclusion

No claim is allowed.

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Myron G. Hill whose telephone number is 571-272-0901. The examiner can normally be reached on 8:30 am-5 pm Mon-Fri.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bruce Campell can be reached on 571-272-0974. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Myron Hill Patent Examiner 7/2/07

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